

06-29-06

Attorney's Docket No.: 18202-048001 / 1087



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lin Zhi *et al.*
Serial No. : 10/684,212
Conf. No. : 8674
Filed : October 10, 2003

Art Unit : 1625
Examiner : Charanjit Aulakh
Cust. No. : 20985

Title : **5-SUBSTITUTED 7,9-DIFLUORO-5H-CHROMENO [3,4-F]
QUINOLINE COMPOUNDS AS SELECTIVE PROGESTERONE
RECEPTOR MODULATOR COMPOUNDS**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

Transmitted herewith are a Supplemental Information Disclosure Statement, Form PTO-1449 (3 pages), cited non U.S. patent references, a check in the amount of \$180.00, and a return postcard for filing in connection with the above-identified application.

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman
Reg. No. 33,779

Attorney Docket No. 18202-048001 / 1087
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I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Stephanie Seidman



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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Because this Supplemental Information Disclosure Statement is filed after the receipt of a First Office Action on the Merits for the above-captioned application, a check for the filing fee of \$180.00 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all information known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (3 pages) and copies of the cited non U.S. Patent documents are provided herewith.

The documents cited on the Forms PTO-1449 are in the English language, with the exception of items noted below. Item AC (JP 04 316557) is in the Japanese language and is provided with an English language abstract (Item AM); Item AE (DE 2015351) is in the German language and is provided with an English language equivalent (Item AA, US 3,635,941); Item BF (Edel'man et al.) is in the Russian language and is provided with an

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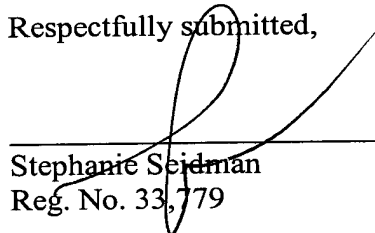
Stephanie Seidman

English language abstract (Item AL); Item BH (Horner et al.) is in the German language and is provided with an English language abstract on the first page of the article; Item BK (Ota et al.) is in the German language and is provided with an English language abstract on the first page of the article; Item BL (Samsonova et al.) is in the Russian language and is provided with an English language abstract (Item AO); Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references or information, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(g and h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and they be made of record in the file history of the above-captioned application.

Respectfully submitted,



Stephanie Seidman
Reg. No. 33,779

Attorney Docket No. 18202-048001 / 1087

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Sheet 1 of 3

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 18202-048001	Application No. 10/684,212
	Applicant Lin Zhi et al.		
	Filing Date October 11, 2003	Group Art Unit 1625	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	3,635,941	01/18/72	Weaver et al.			
	AB	3,907,507	09/23/95	Rivera, H.M.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AC	04 316557	11/06/92	JP				X*
	AD	0513387	03/01/00	EP				
	AE	2015351A	10/15/70	DE				X*
	AF	96/19458	06/27/96	PCT				
	AG	97/49709	12/31/97	PCT				

X* = An English language document is provided

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AH	Berger et al. "Interaction of Glucocorticoid Analogues with the Human Glucocorticoid Receptor," J. Steroid Biochem. Molec. Biol., Vol.41, No. 3-8, pp. 733-738 (1992).
	AI	Brown, J.P. and L.M. Jackman, "Reactions of 2,2-Dialkyl-1,2-dihydroquinolines. Part II. Bromo-derivatives of 1,2-Dihydro-2,2,4-trimethylquinoline," Journal of the Chemical Society, September 1964, pp. 3132-3140
	AJ	Chemical Abstracts, vol. 87, no. 13, 26 September 1977 (1977-09-26), Abstract No. 102120c for: Migachev, et al., "Synthesis of substituted derivatives of 6H-dibenzo[b,d]pyran-6-one," Khim. Geterotsikl. Soedin. (1977), (5), 703-4
	AK	Cook et al., "Reversal of Activity Profile in Analogs of the Antiprogesterin RU 486: Effect of a 16 α -Substituent on Progestational (Agonist) Activity," Life Sciences Vol. 52, pp. 155-162 (1992)
	AL	Database CAPLUS, Chemical Abstracts AN=1975:111718 for Endel'man et al. "[N-phenylanthranilic acids with fluorine-containing substituents]," Ukr. Khim. Zh. (Russ. Ed.) vol. 40, no. 12, pp. 1292-5 (1974)
	AM	Database CAPLUS, Chemical Abstracts AN=118:147477 for Japanese Patent Publication No. JP 04316557, published November 6, 1992, Kono et al., entitled: "Preparation of 6-aryl-cyclic anthranilic acids and their use as therapeutics for treatment of metabolic bone disorder".
	AN	Database CAPLUS, Chemical Abstracts AN=70:87515 for Kost et al., "Pyridylation of 1-alkyl-1,2,3,4-tetrahydroquinolines," Khim. Geterotsikl. Soedin., Sb., 1: Azotsoderzhashchie Geterotsikly (1967), pages 248-53, Editor(s): Hillers, S., Publisher: Izd. "Zinatne" Riga, USSR
	AO	Database CAPLUS, Chemical Abstracts AN=1993:613822 for Samsonova et al., "Spectroscopic studies of photoreactions in aminocoumarins," Kvantovaya Elektron (Kiev) vol. 41, pages 63-72 (1992)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 18202-048001	Application No. 10/684,212
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Lin Zhi et al.	
		Filing Date October 11, 2003	Group Art Unit 1625

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AP	Database CAPLUS, Chemical Abstracts AN=1992:22860 for Song, et al., "Solvent effect of nonradiative transition yield for coumarin derivative," Chinese Science Bulletin, vol. 36, no. 12, pages 1000-1003, (1992)
	AQ	Database Crossfire Beilstein 'Online!', XP 002002687, BRN=880985 & J. Org. Chem. USSR, vol. 9, 1973, pages 2571-2576
	AR	Database Crossfire Beilstein 'Online!', XP 002002688, BRN=143474 & Journal of Organic Chemistry, vol. 30, 1965, pages 3560-3561
	AS	Database Crossfire Beilstein 'Online!' XP002002689, BRN=18052 & Ueda: Yakugaku Zasshi, vol. 57, 1937, pages 312-316
	AT	Database Crossfire Beilstein 'Online!', XP 002002690, BRN=185528 & Anal. Chem., vol. 27, 1955, pages 100-101
	AU	Database Crossfire Beilstein 'Online!', XP 002002691, BRN=384096 & Chemische Berichte, vol. 35, 1902, pages 3278
	AV	Database Crossfire Beilstein 'Online!', XP002002692, BRNs.=193508 and 211894 & Journal of the American Chemical Society, vol. 57, 1935, page 902
	AW	Database Crossfire Beilstein 'Online!', XP 002002693, BRN=1129121 & Journal of Organic Chemistry, vol. 43, 1978, pages 1975-1980
	AX	Database Crossfire Beilstein 'Online!', XP 002002694, BRNs.=1241334 and 1682456 & Bull. Acad. Sci. USSR Div. Chem. Sci (Engl. Trans.), vol. 25, 1976, pages 2069-2071
	AY	Database Crossfire Beilstein 'Online!', XP 002002695, BRNs.=4800533, 4800630, and 4804716 & Journal of Medicinal Chemistry, vol. 34, no. 11, 1991, pages 3261-3267
	AZ	Database Crossfire Beilstein 'Online!', XP002002696, BRN=424721 & DE 20 15 351 A, 15 October 1970 (1970-10-15)
	BA	Database Crossfire Beilstein 'Online!', XP002002697, BRN=140265 & US 3 907 507 A 23 September 1995 (1975-09-23)
	BB	Database Crossfire Beilstein 'Online!', XP002002698, BRN=640834 & Journal of the Chemical Society, 1964, pages 3132-3140
	BC	Database Crossfire Beilstein 'Online!', XP 002002699, BRN=390257 & Journal of Medicinal Chemistry, vol. 15, 1972, page 1177-1179
	BD	Database Crossfire Beilstein 'Online!', XP002002698, BRN=1566891 & Helvetica Chimica Acta, vol. 60, 1977, pages 978-1021
	BE	Database Crossfire Beilstein 'Online!', XP002002701, BRN=269284 & Journal of the American Chemical Society, vol. 66, 1994, page 1927
	BF	Endel'man et al. "[N-phenylanthranilic acids with fluorine-containing substituents]," Ukr. Khim. Zh. (Russ. Ed.) vol. 40, no. 12, pp. 1292-5 (1974) [In Russian]
	BG	Fletcher, A.N. and D.E. Bliss, "Laser Dye Stability. Part 5. Effect of Chemical Substituents of Bicyclic Dyes Upon Photodegradation Parameters," Appl. Phys. vol. 16, no. 3, pp. 289-295 (1978)
	BH	Horner, L. and D.W. Baston, "Investiations on o-Quinones, XXXIV. -Experiments for the Preparation of Quinones Derived from Fluorene and Fluorenone," Justus Liebigs Ann. Chem., 5-6, pp. 910-935 (1973) [In German with an English language abstract on the first page of the article]
	BI	Manthey et al., "Structural Elucidation and Independent Synthesis of the Radical-Radical Coupling Products of 3-Hydroxyanthranilic Acid with Tyrosine and Phenols," J. Org. Chem. 55(15):4581-4585 (1990)

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	BJ	Mosettig, E. and R.A. Robinson, "Benzofuroquinolines," Journal of the American Chemical Society, vol. 57, page 902 (1935)
	BK	Ota, E and M. Okazaki, "The Synthesis of 3,4-Benzocoumarins from Diphenic Acids," Yuki Gosei Kagaku Kyokai Shi., vol. 28, no. 3, pages 341-345, (1970) [In Japanese with an English language abstract on the first page of the article]
	BL	Samsonova et al., "[Spectroscopic studies of photoreactions in aminocoumarins]," Kvantovaya Elektron. (Kiev), vol. 41, pages 63-72 (1992) [In Russian]
	BM	Song, et al., "Solvent effect of nonradiative transition yield for coumarin derivative," Chinese Science Bulletin, vol. 36, no. 12, pages 1000-1003, (1992)
	BN	Suri, S.C. and V. Nair, "Palladium(0)-Catalyzed Reaction of 2-Bromo-7-Methoxytropone with Arylboronic Acids: An Efficient Synthesis of 2-Aryl-7-Methoxytropone," Synthesis, vol. 8, pages 695-696 (August 1990)
	BO	Teutsch, G. and D. Philibert, "History of perspectives of antiprogestins from the chemist's point of view," Human Reproduction vol. 9 (suppl. 1) pages 12-31, (1994)
	BP	Tod, et al., "Analytical Implications of Luminescence Parameters in Liquid Chromatography: Applications to Aminocoumarins in the Peroxyoxalate Chemiluminescent Reaction," Analytica Chimica Acta, vol. 217, no. 1, pages 11-21, (1989)

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